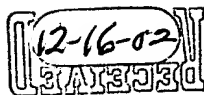


Calderbank 19-6-42



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12/20/02IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Patent Application

Inventor(s)	Arthur Robert Calderbank Ayman Naguib Nambirajan Seshadri	Case Name	Calderbank 19-6-42
Filing Date	4/28/1999	Serial No.	09/300,494
Examiner	Chieh M Fan	Group Art Unit	2634
Title	Combined Channel Coding and Space-Time Block Coding in a Multi-Antenna Arrangement		

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231
SIR:

AMENDMENT

In response to an Office action dated September 16, 2002 please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the paragraph at line 2 of page 10 with the following: --

When β_1 is set to 1, we get the following minimization criterion from equation

(21)

--

IN THE CLAIMS:

3. (Amended) A transmitter comprising:
a demultiplexer responsive to an applied input signal for developing a plurality of at least two signal streams, and
a like plurality of channel coding/space-time coding transmitters, each responsive to a different signal stream of said plurality of signal streams, and each carrying out channel coding followed by space-time coding.

4. (Amended) The transmitter of claim 3 where each of said channel coding/space-time coding transmitters comprises:
a channel coder of rate R_t ,

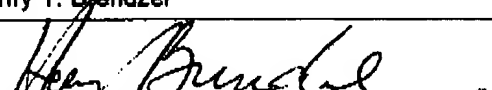
**LAW OFFICE OF
HENRY T. BRENDZEL**

Date: December 16, 2002	
To: Examiner: Chieh M Fan	From: Henry T. Brendzel, Esq
Fax: 703-872-9314	Fax: (973) 467-6589
Phone: 703-305-0198	Phone: (973) 467-2025
Re: Serial No: 09/300,494	Pages: Cover + 9


Henry Brendzel

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Complete if Known	
		Application Number	09/300,494
		Filing Date	4/28/1999
		First Named Inventor	Arthur Robert Calderbank
		Examiner Name	Chieh M Fan
		Group/Art Unit	2634
Total number of pages in this Submission: this page, plus 8		Attorney Docket ID	Calderbank 19-6-42

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Form (<input type="checkbox"/> Check included)	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> Postcard(s)
<input checked="" type="checkbox"/> Fee Form not Included, but should a fee be due, the Commissioner is Authorized to charge Deposit Account No 500732 of Henry T. Brendzel	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Small Entity Statement
<input checked="" type="checkbox"/> Amendment/Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Request for a Refund
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (TO/SB/69) and Accompanying Petition	<input type="checkbox"/> After Allowance Communication to group
<input type="checkbox"/> Affidavit(s)/Declaration(s)	<input type="checkbox"/> To Convert a Provisional Application	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation or Change of Correspondence Address	<input type="checkbox"/> Appeal Communications to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Express Abandonment	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Certified Copy of Priority document(s)	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<input type="checkbox"/> To Convert to Statutory Invention Registration	<input type="checkbox"/> Other
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.2 or 1.53		
<input type="checkbox"/> Declaration (no Missing Parts Notice)		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual Name	Henry T. Brendzel	
Signature		Date 12/16/02

CERTIFICATE OF MAILING		
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Henry Brendzel		12/16/02
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